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now available on STN
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NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 26 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 27 Oct 21 EVENTLINE has been reloaded
NEWS 28 Oct 24 BEILSTEIN adds new search fields
NEWS 29 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 30 Oct 25 MEDLINE SDI run of October 8, 2002
NEWS 31 Nov 18 DKILIT has been renamed APOLLIT
NEWS 32 Nov 25 More calculated properties added to REGISTRY
NEWS 33 Dec 02 TIBKAT will be removed from STN
NEWS 34 Dec 04 CSA files on STN
NEWS 35 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 36 Dec 17 TOXCENTER enhanced with additional content
NEWS 37 Dec 17 Adis Clinical Trials Insight now available on STN
NEWS 38 Dec 30 ISMEC no longer available
NEWS 39 Jan 13 Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 40 Jan 21 NUTRACEUT offering one free connect hour in February 2003
NEWS 41 Jan 21 PHARMAML offering one free connect hour in February 2003
NEWS 42 Jan 29 Simultaneous left and right truncation added to COMPENDEX,
ENERGY, INSPEC
NEWS 43 Feb 13 CANCERLIT is no longer being updated

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a.

CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
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FILE COVERS 1969 TO DATE.
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNS) PRESENT
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RECORDS LAST ADDED: 12 February 2003 (20030212/ED)

```
=> s von Willebrand factor and complex  
      20684 VON  
      10113 WILLEBRAND  
      688698 FACTOR  
      8285 VON WILLEBRAND FACTOR  
            (VON(W) WILLEBRAND(W) FACTOR)  
      403423 COMPLEX  
      987 VON WILLEBRAND FACTOR AND COMPLEX
```

```
=> s 11 and cation exchange  
      38971 CATION  
      129912 EXCHANGE  
          8775 CATION EXCHANGE  
              (CATION (W) EXCHANGE)  
L2          1 L1 AND CATION EXCHANGE
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=> d 12 ti abs ibib tot

L2 ANSWER 1 OF 1 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI DIFFERENTIAL PROTEOLYTIC ACTIVATION OF FACTOR VIII-VON
WILLEBRAND FACTOR COMPLEX BY THROMBIN

AB **WILLEBRAND FACTOR COMPLEX & THROMBIN.** Blood coagulation factor VIII (fVIII) is a plasma protein that is decreased or absent in hemophilia A. It is isolated as a mixture of heterodimers that contain a variably sized heavy chain and a common light chain. Thrombin catalyzes the activation of fVIII in a reaction that is associated with cleavages in both types of chain. We isolated a serine protease from Bothrops jararacussu snake venom that catalyzes thrombin-like heavy-chain cleavage but not light-chain cleavage in porcine

fVIII as judged by NaDodsO4/PAGE and N-terminal sequence analysis. Using a plasma-free assay of the ability of activated fVIII to function as a cofactor in the activation of factor X by factor IXa, we found that fVIII is activated by the venom enzyme. The venom enzyme-activated fVIII was isolated in stable form by cation-exchange HPLC.

von Willebrand factor inhibited venom enzyme-activated fVIII but not thrombin-activated fVIII. These results suggest that the binding of fVIII to **von Willebrand factor** depends on the presence of an intact light chain and that activated fVIII must dissociate from **von Willebrand factor** to exert its cofactor effect. Thus, proteolytic activation of fVIII-**von Willebrand factor complex** appears to be differentially regulated by light-chain cleavage to dissociate the **complex** and heavy-chain cleavage to activate the cofactor function.

ACCESSION NUMBER: 1989:468581 BIOSIS

DOCUMENT NUMBER: BA88:104341

TITLE: DIFFERENTIAL PROTEOLYTIC ACTIVATION OF FACTOR VIII-VON WILLEBRAND FACTOR COMPLEX BY THROMBIN.

AUTHOR(S): HILL-EUBANKS D C; PARKER C G; LOLLAR P

CORPORATE SOURCE: DEP. MED., UNIV. VERMONT, BURLINGTON, VERMONT 05405.

SOURCE: PROC NATL ACAD SCI U S A, (1989) 86 (17), 6508-6512.
CODEN: PNASA6. ISSN: 0027-8424.

FILE SEGMENT: BA; OLD

LANGUAGE: English